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APPLICATION N	10.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/662,020		09/11/2003	Gregory Shirin	15437-0578	8580
45657	7590	03/09/2006		EXAMINER	
		RMO TRUONG & I	MYINT, DENNIS Y		
	N MICKOS TEWAY P	SYSTEMS, INC. LACE	ART UNIT	PAPER NUMBER	
SUITE 550 SAN JOSE, CA 95110-1089				2162	
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Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	10/662,020	SHIRIN ET AL.
Office Action Summary	Examiner	Art Unit
	Dennis Myint	2162
The MAILING DATE of this communication appearing for Reply	pears on the cover sheet with the c	orrespondence address
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be timwill apply and will expire SIX (6) MONTHS from e. cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).
Status		
 1) Responsive to communication(s) filed on 11 S 2a) This action is FINAL. 2b) This 3) Since this application is in condition for alloward closed in accordance with the practice under the second secon	s action is non-final. ince except for formal matters, pro	
Disposition of Claims		
4) Claim(s) 1-39 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 1-39 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/o	wn from consideration.	
Application Papers		
9) ☐ The specification is objected to by the Examine 10) ☑ The drawing(s) filed on 11 September 2003 is/ Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the E	are: a) accepted or b) object drawing(s) be held in abeyance. See stion is required if the drawing(s) is object.	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documen 2. Certified copies of the priority documen 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list 	ts have been received. ts have been received in Applicationity documents have been receive tu (PCT Rule 17.2(a)).	on No ed in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892)	4) 🔲 Interview Summary	(PTO_413)
 Notice of References Cited (PTO-692) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date <u>09/11/2003</u>. 	Paper No(s)/Mail Da	

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DETAILED ACTION

1. Claims 1-39 have been examined.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- Claim1-39 are rejected under 35 U.S.C. 102(e) as being anticipated by Aziz et al.
 (U.S. Patent Application Publication Number 2003/0126265).

As per claim 1, Aziz et al. is directed to a method comprising:

determining, by a grid establishment component (Aziz et al., Figure 2 "CONTROL PLANE" 206 and Paragraph 0060), from a plurality of nodes (Aziz et al., Paragraph 0058, i.e. "a large number of computing elements CPU1, CPU2....." and Figure 2 "CPU1", "CPU2"), a set of grid nodes to include in a resource grid (Aziz et al., Figure 2 local computing grid 208 and Paragraph 0058, i.e., "The local computing grid 208 is composed of a large number of computing elements"), wherein each grid node provides zero or more resources (Aziz et al., Paragraph 0075, i.e. "A particular computing element may perform different roles as it is brought into and out of various VSFs."; and

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establishing, by the grid establishment component, the resource grid (Aziz et al., Paragraph 0067, 0065, 0066, and 000055, i.e. "create a variety of server farm configurations."), wherein

establishing comprises:

configuring each grid node to enable that grid node to participate as part of the resource grid (Aziz et al., Paragraph 000055 and 0065); and establishing one or more grid masters (Aziz et al., Paragraph 0075 "web load balancer", Figure 3 "LB/FIREWALL" 302, and Paragraph 0083) to manage access to the resources provided by the grid nodes (Aziz et al., Paragraph 0085), such that the resource grid formed by the grid nodes behaves as a single pool of resources accessible through the one or more grid masters (Aziz et al., Paragraph 0062, Figure 3, and Paragraph 0085).

As per claim 2, Aziz et al. is directed to the method of claim 1, wherein each grid node has a grid facilitation agent operating thereon (Aziz et al. Paragraph 0071, i.e. "storage zone on the SAN". Note that a set of computing elements are coupled to a subset of SAN storage (Paragraph 0061) and said storage zone includes software, i.e. grid facilitation agent, which is run when a computing agent is rebooted (Paragraph 0061) during the process to bring in said computing element into the computing grid.), and wherein configuring a grid node to enable that grid node to participate as part of the resource grid comprises:

deploying a grid participation module to the grid facilitation agent operating on the grid node (Aziz et al., Paragraph 0071 and 0072. By rebooting a computing element (node), software, which resides on a portion of the storage zone of the SAN which is coupled to the computing element, is evoked and said software (a grid facilitation agent with grid participation module) prepares the computing module (node) to participate in the computing grid (Paragraph 0072)); and

instructing the grid facilitation agent to run the grid participation module on the grid node to enable the grid node to participate as part of the resource grid (Aziz et al., Paragraph 0072).

As per claim 3, Aziz et al. is directed to the method of claim 2, wherein determining the set of grid nodes comprises:

determining which of the plurality of nodes has a grid facilitation agent operating thereon (Aziz et al., Paragraph 0061-0063 and Paragraph 0071-0072. Note that, in the method and system of Aziz et al., control plane (grid establishment component) determines which nodes would be in the grid by rebooting nodes and selecting a specific software (grid facilitation agent with grid participation module) to run on those nodes during the reboot process (Paragraph 0071-0072). Thus the method and system of Aziz et al. preempts the step of determining which of the plurality of nodes has a grid facilitation agent operating thereon.); and

selecting those nodes as the grid nodes (Paragraph 0061-0062 and 0071-0072).

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As per claim 4, Aziz et al. is directed to the method of claim 1, wherein configuring a grid node to enable that grid node to participate as part of the resource grid comprises:

causing the grid node to execute a grid facilitation agent thereon (Aziz et al., Paragraph 0061-0062 and Paragraph 0071-0072);

deploying a grid participation module to the grid facilitation agent executing on the grid node (Aziz et al., Paragraph 0061-0062 and Paragraph 0071-0072); and instructing the grid facilitation agent to run the grid participation module on the grid node to enable the grid node to participate as part of the resource grid (Aziz et al.,

Paragraph 0061-0062 and Paragraph 0071-0072).

As per claim 5, Aziz et al. is directed to the method of claim 4, wherein causing the grid node to execute the grid facilitation agent comprises:

causing the grid node to reboot using an operating system image obtained from a component separate from the grid node, wherein the operating system image comprises the grid facilitation agent (Aziz et al., Paragraph 0071, i.e. "the computing element is powered down or rebooted" and "a bootable image of the operating system").

As per claim 6, Aziz et al. is directed to the method of claim 4, wherein causing the grid node to execute the grid facilitation agent comprises:

instructing the grid node, via a privileged port of the grid node (Aziz et al., Paragraph 0065, i.e. "Devices can only be configured through such control ports or interfaces."), to reboot using an operating system image obtained from a component separate from the grid node ("When a computing element is powered back up, a

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different portion of storage zone on the SAN."), wherein the operating system image comprises the grid facilitation agent (Aziz et al., Paragraph 0071 and 0065).

As per claim 7, Aziz et al. is directed to the method of claim 6, wherein determining the set of grid nodes comprises:

determining to which of the plurality of nodes the grid establishment component has access to a privileged port (Aziz et al., Paragraph 0065, "control ports"); and selecting those nodes as the grid nodes (Aziz et al., Paragraph 0065).

As per claim 8, Aziz et al. is directed to the method of claim 1, wherein configuring a grid node to enable that grid node to participate as part of the resource grid comprises:

deploying a grid facilitation agent to an operating system running on the grid node (Aziz et al., Paragraph 0061-0062 and Paragraph 0071-0072);

instructing the operating system to run the grid facilitation agent on the grid node (Aziz et al., Paragraph 0061-0062 and Paragraph 0071-0072);

deploying a grid participation module to the grid facilitation agent running on the grid node (Aziz et al., Paragraph 0061-0062 and Paragraph 0071-0072); and

instructing the grid facilitation agent to run the grid participation module on the grid node to enable the grid node to participate as part of the resource grid (Aziz et al., Paragraph 0061-0062 and Paragraph 0071-0072).

As per claim 8, Aziz et al. is directed to the method of claim 8, wherein each of the plurality of node has an operating system running thereon (Aziz et al., Paragraph 0071), and wherein determining the set of grid nodes comprises:

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determining, for each of the plurality of nodes, whether the grid establishment component has sufficient privileged access to the operating system running on that node to deploy the grid facilitation agent to that operating system (Aziz et al., Paragraph 0061-0062 and Paragraph 0071-0072); and

in response to a determination that the grid establishment component has sufficient privileged access to that operating system, selecting that node as one of the grid nodes (Aziz et al., Paragraph 0061-0062 and Paragraph 0071-0072).

As per claim 10, Aziz et al. is directed to the method of claim 1, wherein determining comprises: receiving a set of information from an administrator that specifies the set of grid nodes (Aziz et al., Paragraph 0052-0053, "control plane" and "supervisory purposes").

As per claim 11, Aziz et al. is directed to the method of claim 1, wherein establishing the resource grid is implemented by the grid establishment component without user intervention (Aziz et al. 0055).

As per claim 12, Aziz et al. is directed to the method of claim 1, wherein establishing one or more grid masters comprises: establishing the grid establishment component as a grid master (Aziz et al., Paragraph 0051-0055, "control plane" and Aziz et al., Paragraph 0075 "web load balancer").

As per claim 13, Aziz et al. is directed to the method of claim 1, wherein establishing one or more grid masters comprises: establishing at least one of the grid nodes as a grid master (Aziz et al., Paragraph 0051-0055, "control plane" and Aziz et al., Paragraph 0075 "web load balancer").

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Claim 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, and 26 are rejected on the same basis as claim 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, and 13 respectively.

Claim 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, and 39 are rejected on the same basis as claim 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, and 13 respectively.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dennis Myint whose telephone number is (571) 272-5629. The examiner can normally be reached on 8:30AM-5:30PM Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Breene can be reached on (571) 272-4107. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Dennis Myint

John E. Brene SUFFERENCE

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